

# AMRITESH ANAND

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## SUMMARY

Experienced Software Engineer with 3+ years in Java, Spring Boot, and backend technologies. MS in Software Engineering Systems candidate at Northeastern University, focusing on cutting-edge practices. Exploring ML, AI, and LLMs to drive innovation and solve complex software challenges.

## EDUCATION

### Northeastern University

Master of Science in Computer Software Engineering

September 2024 – May 2026

Boston, MA

Relevant Coursework: Object Oriented Design, Machine Learning, Web Design and User Experience, Algorithms

## SKILLS

**Languages:** Java, C/C++, Python, HTML/CSS, JavaScript, SQL

**Web Technologies/Frameworks:** Node.js, React.js, Express.js, Spring Boot, Spring Framework, Sass, Junit, Jest

**Databases:** MySQL, PostgreSQL, MS SQL Server, Redis, MongoDB

**Tools:** REST API, Git Version Control, GitHub, Maven, Postman, Agile Framework, Jira, Jenkins, Docker, ServiceNow  
Jupyter Notebook, VS Code, Eclipse, Kubernetes, Docker, GitHub CI/CD

**Machine Learning:** Regression, Classification, Clustering, Numpy, Pandas, Scikit-Learn, PyTorch, Matplotlib

## WORK EXPERIENCE

### NTT DATA

January 2023 – June 2024

#### Software Engineer

Bengaluru, India

- \* Implemented real-time credit scoring system using **Kafka**, processing **1M+** transactions daily and reducing decision-making time by 60% for a European Bank.
- \* Developed **100+** **REST API** endpoints using **Java SpringBoot** and multiple business features, increasing system functionality by **30%** and reducing API response times by 25%.
- \* Enhanced system security by integrating **OAuth**, reducing unauthorized access attempts by **95%** for 500,000+ users, while optimizing performance with **Redis** caching, decreasing database load by 40%.
- \* Contributed to **microservices** architecture design, enabling **50%** faster deployment cycles and reducing maintenance time by 35% across 20 services.

### NTT DATA

May 2021 – December 2022

#### Associate Software Engineer

Bengaluru, India

- \* Implemented enterprise communication solutions for **5+** global clients using **Java** scripting, resulting in a 40% improvement in PBX efficiency and a 30% increase in call recording accuracy.
- \* Managed call server databases for 1M+ daily transactions using **MS SQL Server**, optimizing query performance by 50% and reducing data retrieval time by 35%.
- \* Resolved **100+** critical client issues per month, maintaining 99% system uptime and reducing average response time from 2 hours to 30 minutes, exceeding **SLA** commitments by 15%, consistently excelling team **KPIs**.

### NTT DATA

Oct 2020 – April 2021

#### Graduate Engineering Trainee

Bengaluru, India

- \* Completed comprehensive training in multiple facets of Software Development, Computer Networking (Routers, TCP/IP), and various Business Processes within the Information Technology industry.

## PROJECTS

### ezMedSafe | Node.js, React, Prisma, Neo4j, Pinecone, Google Gemini, Kafka, Docker, Kubernetes **Link** June 2025

- \* AI-Powered Drug Interaction & Adverse Event Early Warning System, Architected and implemented AI agents using **LangChain** leveraging a robust Model Context Protocol (**MCP**) and Retrieval-Augmented Generation (**RAG**) with Google Gemini, Neo4j, and Pinecone to deliver contextual, explainable drug interaction alerts.
- \* Developed a scalable microservices platform using Node.js with Prisma ORM and React frontend, deployed via Docker and Kubernetes (K3s), ensuring robust data management and seamless user experience.
- \* Integrated comprehensive observability (Prometheus, Grafana, ELK, OpenTelemetry) and real-time event streaming (Kafka) for an industry-grade, auditable healthcare solution enhancing patient safety.

### WellEat | MongoDB, ExpressJS, ReactJS, NodeJS **Link**

December 2024

- \* AI-powered web application with a real-time nutrient and grocery analysis feature, empowering users to instantly assess the nutritional profile of ingredients and make healthier food choices.
- \* Spearheaded the full-stack development of a crowdfunding web app with 3 other developers using the MERN stack, ensuring a seamless user experience
- \* Devised robust backend REST APIs in Node.js/Express.js with over 10 components and 5 key features seamlessly integrating with frontend components in React.js, Material-UI, TailwindCSS